

Nuclide Analysis Results of Seawater <Coast>

Reference

(Data summarized on August 22)

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)		Around South Discharge Channel of 1F (approx. 330m south of 1-4u Discharge Channel)				Around North Discharge Channel of 2F (Around 3,4u Discharge Channel) (approx. 10 km from 1F)		Around Iwasawa Shore of 2F (approx. 7 km south of 1,2u Discharge Channel) (approx. 16 km from 1F)		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	9:40 am August 21, 2011		9:15 am August 21, 2011		N.A.		8:10 am August 21, 2011		7:45 am August 21, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	/	/	ND	-	ND	-	40
Cs-134 (about 2 years)	32	0.53	ND	-	/	/	ND	-	ND	-	60
Cs-137 (about 30 years)	49	0.54	ND	-	/	/	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm³ to Bq/L.

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below measurable limit, "ND" is stated.

Detection limits of the three main nuclides on North of Discharge Channel of 5-6u of 1F and around South Discharge Channel of 1F are as follows:

I-131: approx. 9Bq/L., Cs-134: approx. 21Bq/L, Cs-137: approx. 24Bq/L.

Detection limits of the three main nuclides around North Discharge Channel of 2F and Iwasawa Shore of 2F are as follows:

I-131: approx. 4Bq/L., Cs-134: approx. 6Bq/L, Cs-137: approx. 9Bq/L.

Results of Nuclide Analysis of Seawater < Offshore 1/3 >

Reference

(Data summarized on August 22)

Place of Sampling	15 km offshore of MinamiSouma City Upper layer		15 km offshore of MinamiSouma City Lower layer		15 km offshore of Ukedo-gawa Upper layer		15 km offshore of Ukedo-gawa Lower layer		15 km offshore of Fukushima Daiichi Upper layer		15 km offshore of Fukushima Daiichi Lower layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	N.A.		N.A.		Not sampled on August 21, 2011		Not sampled on August 21, 2011		Not sampled on August 21, 2011		Not sampled on August 21, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	/	/	/	/	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	/	/	/	/	/	/	90

Place of Sampling	15 km offshore of Fukushima Daini Upper layer		15 km offshore of Fukushima Daini Lower layer		15 km offshore of Iwasawa Shore Upper layer		15 km offshore of Iwasawa Shore Lower layer		15 km offshore of Hironomachi Upper layer		15 km offshore of Hironomachi Lower layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	Not sampled on August 21, 2011		Not sampled on August 21, 2011		N.A.		N.A.		N.A.		N.A.		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	/	/	/	/	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	/	/	/	/	/	/	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm³ to Bq/L.

Results of Nuclide Analysis of Seawater < Offshore 2/3 >

Reference

(Data summarized on August 22)

Place of Sampling	30 km offshore of MinamiSouma City Upper layer		30 km offshore of MinamiSouma City Middle layer		30 km offshore of MinamiSouma City Lower layer		30 km offshore of Ukedo-gawa Upper layer		30 km offshore of Ukedo-gawa Middle layer		30 km offshore of Ukedo-gawa Lower layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	7:45 am August 21, 2011		7:45 am August 21, 2011		7:45 am August 21, 2011		6:40 am August 21, 2011		6:40 am August 21, 2011		6:40 am August 21, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	5 km offshore of Souma City Upper layer		5 km offshore of Souma City Lower layer		5 km offshore of Kashima City Upper layer		5 km offshore of Kashima City Lower layer		3 km offshore of Souma City Upper layer		3 km offshore of Souma City Lower layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time and Date of Sample Collection	5:25 am August 21, 2011		5:25 am August 21, 2011		5:55 am August 21, 2011		5:55 am August 21, 2011		5:00 am August 21, 2011		5:00 am August 21, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm³ to Bq/L.

Data of other nuclides are under evaluation.

In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

In the case that the data is below detective limits (I-131: approx. 4Bq/L., Cs-134: approx. 6Bq/L., Cs-137: approx. 9Bq/L.), "ND" is stated.

Results of Nuclide Analysis of Seawater < Offshore 3/3 >

Reference

(Data summarized on August 22)

Place of Sampling	Numanouchi Offshore 5km Upper Layer		Numanouchi Offshore 5km Lower Layer		Numanouchi Offshore 15km Upper Layer		Numanouchi Offshore 15km Middle Layer		Numanouchi Offshore 15km Lower Layer		Numanouchi Offshore 30km Upper Layer		Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Time and Date of Sample Collection	N.A.		N.A.		Not sampled on August 21, 2011		Not sampled on August 21, 2011		Not sampled on August 21, 2011		Not sampled on August 21, 2011		
Detected Nuclides (Half-life)													
I-131 (about 8 days)													40
Cs-134 (about 2 years)													60
Cs-137 (about 30 years)													90

Place of Sampling	Numanouchi Offshore 30km Middle Layer		Numanouchi Offshore 30km Lower Layer										Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
Time and Date of Sample Collection	Not sampled on August 21, 2011		Not sampled on August 21, 2011										
Detected Nuclides (Half-life)													
I-131 (about 8 days)													40
Cs-134 (about 2 years)													60
Cs-137 (about 30 years)													90

Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm³ to Bq/L.